PROJECT	**POSITION COMPUTATION,_____ ORDER TRIANGULATION** (For calculating machine computation)
	For use of this form, see FM 3-34.331; the proponent agency is TRADOC.

LOCATION	ORGANIZATION	DATE (YYYYMMDD)

			°	′	″				°	′	″
a	2	To 3				a	3	To 2			
$2^d\angle$	&		+			$3^d\angle$	&		—		
a	2	To 1				a	3	To 1			
Δa						Δa					
			180	00	00.00				180	00	00.00
a'	1	T 2				a'	1	To 3			

° ′ ″   First Angle of Triangle

	°	′	″				°	′	″				°	′	″				°	′	″
ϕ				2	λ				ϕ				3	λ			
				s=	$\Delta\lambda$								s=	$\Delta\lambda$			
ϕ'				1	λ'				ϕ'				1	λ'			

$\Delta\phi$	(log s= b=(y/10,000) 2)	$\Delta\phi$	(log s= b=(y/10,000) 2)
sin a	x cor.= $-\frac{1}{2}$ fb	**sin** a	x cor.= $-\frac{1}{2}$ fb
cos a	**x′**	**cos** a	**x′**
x=s sin a	**H**	**x=s sin** a	**H**
y= −s cos a	Hx′=(approx. $\Delta\lambda''$)	**y= −s cos** a	Hx′=(approx. $\Delta\lambda''$)
a=(x′/10,000) ^{2}	$\underset{\text{cor}}{\text{Arc−sin}}$ =+ $\frac{V\,(Va)}{15}$	**a=(x′/10,000)** ^{2}	$\underset{\text{cor}}{\text{Arc−sin}}$ =+ $\frac{V\,(Va)}{15}$
y cor.=+fa	$\underline{\Delta\lambda''}$	y cor.=+fa	$\underline{\Delta\lambda''}$
y$_\circ$	**sin** ϕ	**y**$_\circ$	**sin** ϕ
y′	**sin** ϕ'	**y′**	**sin** ϕ'
y₁	1+ cos$\Delta\phi$	**y₁**	1+ cos $\Delta\phi$
Va —	$\frac{\sin\phi+\sin\phi'}{1+\cos\Delta\phi}$ or sin ϕ_m	**Va** —	$\frac{\sin\phi+\sin\phi'}{1+\cos\Delta\phi}$ or sin ϕ_m
y₂	− $\Delta a''$ (approx.)	**y₂**	− $\Delta a''$ (approx.)
V	+ F ($\Delta\lambda''$) ^{3}	**V**	+ F ($\Delta\lambda''$) ^{3}
K (Va/1,000)^2 +	$\underline{-\Delta a''}$	K (Va/1,000)^2 +	$\underline{-\Delta a''}$

COMPUTED BY	DATE (YYYYMMDD)	CHECKED BY	DATE (YYYYMMDD)	NOTE: For _s._ under 8,000 meters omit terms under the heavy black line not in heavy bold type or underlined.

DA FORM 1923, FEB 1957

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